



Solid State Devices, Inc.

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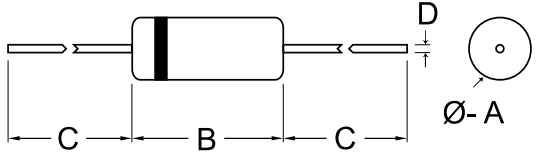
**SZ5A2.4
 thru
 SZ5A200**

DESIGNER'S DATA SHEET

- FEATURES:**
- Hermetically Sealed in Glass
 - Axial Lead Rated at 500 mW
 - Surface Mount Rated at 800 mW
 - Available in Axial (L), Round Tab Surface Mount (SM) and Square Tab Surface Mount (SMS) Versions
 - Available to TX, TXV, and Space Levels ^{5/}
 - Available in 10% and 5% Tolerances. For other Voltage Tolerances, Contact Factory.

**500mW and 800mW
 2.4 – 200 VOLTS
 ZENER DIODES**

Maximum Ratings		Symbol	Value	Units
Nominal Zener Voltage		V_Z	2.4 - 200	V
Zener Current	L	I_{ZM}	2.2 - 198	mA
	SM, SMS		3.3 - 297	
Continuous Power	L	P_D	500	mW
	SM, SMS		800	
Operating and Storage Temp.		T_{op}, T_{stg}	-65 to +175	°C
Thermal Resistance,		$R_{\theta JL}$	250	°C/W
Junction to Lead, L=3/8" (for L)		$R_{\theta JE}$	150	
Junction to End Cap (for SM, SMS) Junction to Ambient (for All)		$R_{\theta JA}$	300	

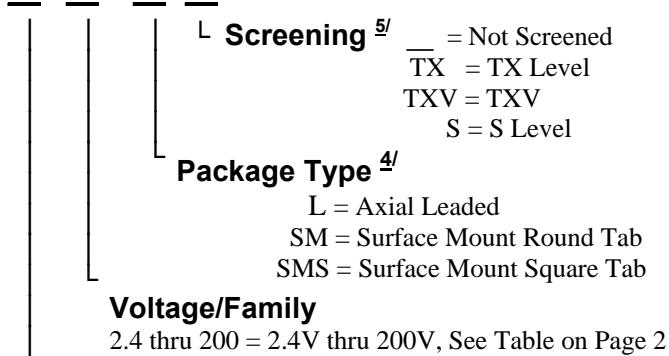


DIM	MIN.	MAX
A	.060"	.090"
B	.120"	.200"
C	1.00"	---
D	.018"	.022"

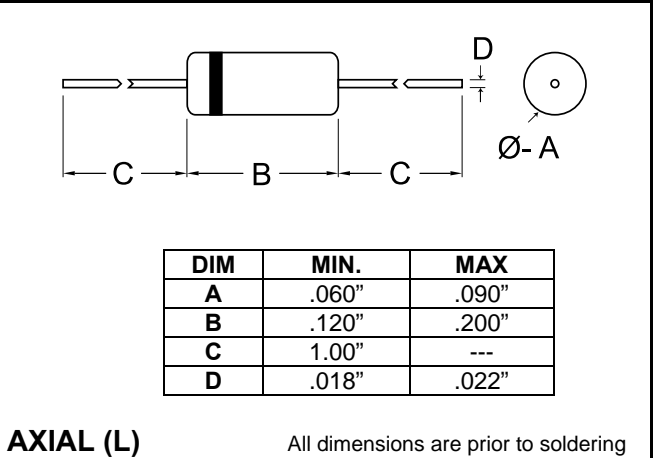
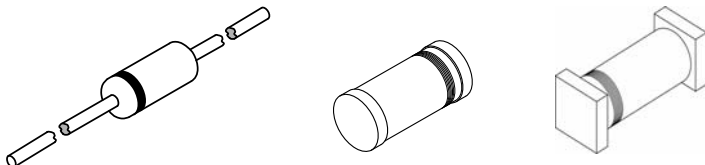
AXIAL (L) All dimensions are prior to soldering

Part Number/Ordering Information ^{2/}

SZ5

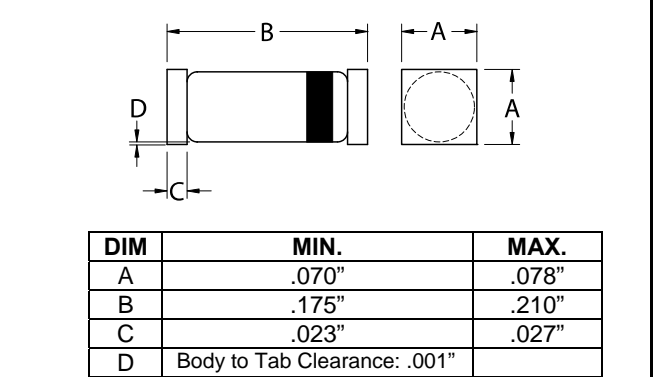


Voltage Tolerance
 A = 10% Voltage Tolerance
 B = 5% Voltage Tolerance



DIM	MIN.	MAX.
A	.057"	.067"
B	.130"	.146"
C	.010"	.022"
D	Body to Tab Clearance: .001"	

ROUND TAB (SM) All dimensions are prior to soldering



DIM	MIN.	MAX.
A	.070"	.078"
B	.175"	.210"
C	.023"	.027"
D	Body to Tab Clearance: .001"	

SQUARE TAB (SMS) All dimensions are prior to soldering

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: Z00002B

DOC



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Table with columns: PART NUMBER, Nominal Zener Voltage, Zener Test Current, Maximum Zener Impedance, Maximum Reverse Leakage Current (IR @ VR, VR-10%, VR-5%), Typical Temperature Coefficient, Max. Continuous Current (Axial, Surface Mount), Voltage Tolerance (10%, 5%), and various current/voltage values for different part numbers.

NOTES: 1/ All zener voltages are measured with an automated test set using a 35 msec test time. Longer or shorter test time will have a corresponding effect on the measured value due to heating effects. 2/ For Ordering Information, Price, Operating Curves, and Availability- Contact Factory. 3/ Zener impedance is derived from the AC voltage divided by the AC current with RMS value of 10% of DC zener test current superimposed on the test current. 4/ SSDI standard marking consists of a contrasting color cathode dot or band. Part number information is included on packaging labels. 5/ Screened to MIL-PRF-19500. 6/ Suffix "L" for Axial, "SM" for Round Tab Surface Mount, and "SMS" for Square Tab Surface Mount. Data Sheet Z00002B